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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/577,347	05/24/2000	Maria Ronay	YOR9-2000-0109	5095	
7.	590 01/03/2002				
Burton A. Amernick Pollock Vande Sande & Amernick RLLP 1990 M Street, N.W. Suite 800 Washington, DC 20036-3425			EXAMINER ·		
			PEREZ RAMOS, VANESSA		
			ART UNIT	PAPER NUMBER	
<i>5</i> ,-			1765	6	
			DATE MAILED: 01/03/2002		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)			
		09/577,347	RONAY, MARIA			
		Examiner	Art Unit			
<del></del>	The MAILING DATE of this communication and	Vanessa Perez-Ramos	1765			
	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1)🖂	Responsive to communication(s) filed on 22 C	October 2001 .				
2a) <u></u> □	This action is <b>FINAL</b> . 2b)⊠ Thi	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.						
4a) Of the above claim(s) <u>1-12</u> is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>13-21</u> is/are rejected.					
7) Claim(s) is/are objected to.						
8)	Claim(s) are subject to restriction and/or	election requirement.				
Application Papers						
9) The specification is objected to by the Examiner.						
10) 🔲 🗆	Γhe drawing(s) filed on is/are: a)□ accep	ted or b)⊡ objected to by the Exa	miner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
$oxedsymbol{oxed}$ a) $oxedsymbol{oxed}$ The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)						
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal	Patent Application (PTO-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 13-21 rejected under 35 U.S.C. 103(a) as being unpatentable over Allman (U.S. 5,645,736).

In regard to claims 13-16, 18 and 21, Allman discloses a semiconductor manufacturing method wherein a layer is polished with a solution comprising abrasive particles (col. 4, lines 17-37) and maleic acid, acrylic or methacrylic acids, which reads on Applicant's "anionic polyelectrolyte".

Allman does not disclose that this solution is used to polish specifically silicon dioxide over silicon nitride.

Allman, however, discloses that "the present compositions can be used to polish or planarize the complex composite surfaces of semiconductor wafers".

It is the Examiner's position that it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Allman by utilizing his polishing composition to specifically polish a silicon dioxide layer, because Allman himself provides the motivation to try the composition on different layers of semiconductor wafers.

In regard to claim 17, it is the Examiner's position that the variation of process parameters such as the concentration of a component would have been obvious to one of ordinary skill in the art, with the purpose of establishing the optimum process conditions.

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In regard to claims 19-20, the use of the claimed components would have been obvious

to one of ordinary skill in the art, as these are well known in the art.

3. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Vanessa Perez-Ramos whose telephone number is 703-306-5510. The

examiner can normally be reached on Mon-Thurs 7:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Benjamin Utech can be reached on 703-308-3836. The fax phone numbers for the

organization where this application or proceeding is assigned are 703-872-9310 for regular

communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is 703-306-5665.

Vanessa Perez-Ramos

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Examiner

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**VPR** 

December 31, 2001

FELISA HITESHEW

HIMARY EXAMINED